SOORYADAYA SCHOOL

Detail Design

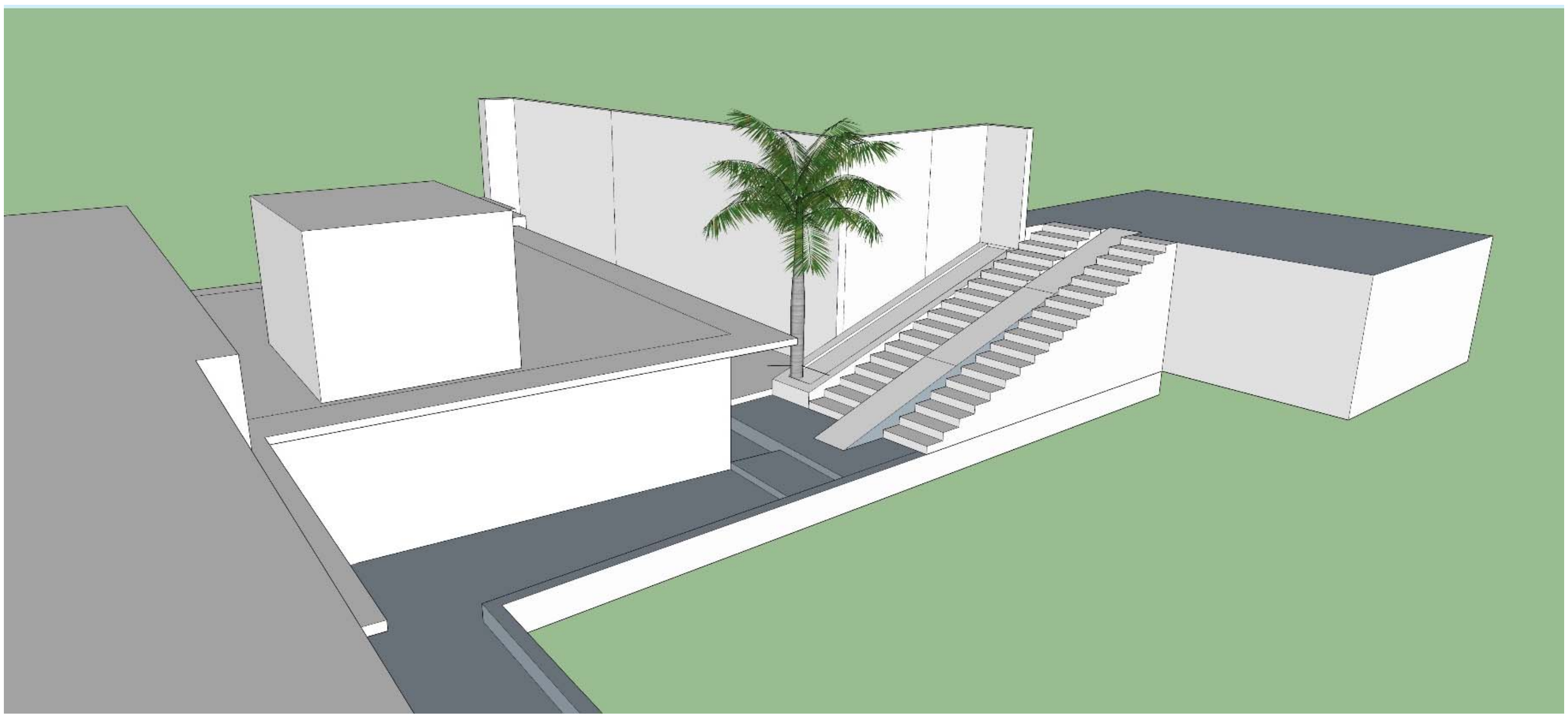
6th December, 2017

राष्ट्रिय अपाङ्ग महासंघ नेपाल
NFD-N

राष्ट्रिय अपाङ्ग महासँघ नेपाल
National Federation of the Disabled - Nepal







EXISTING SITE SCENARIO

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F	FINAL DESIGN	06.12.2017

PROJECT BY
National Federation of the Disabled- Nepal (NFDN)

PROJECT
SOORYADAYA SCHOOL, Bhaktapur

DRAWING TITLE
CONCEPTUAL DESIGN

DESIGN BY
SQUARE UNIT PVT. LTD.
asquareunit@gmail.com

DRAWN BY	SCALE	DATE
AR. Sanjaya Ratna Shakya		06.12.2017

DRAWING NAME	REVISION
SU/A-10/P-MP	A







BRIDGE CONSTRUCTION

- NO SIGNIFICANT IMPACT ON EXISTING VEGETATION, STAIRS AND RAMP

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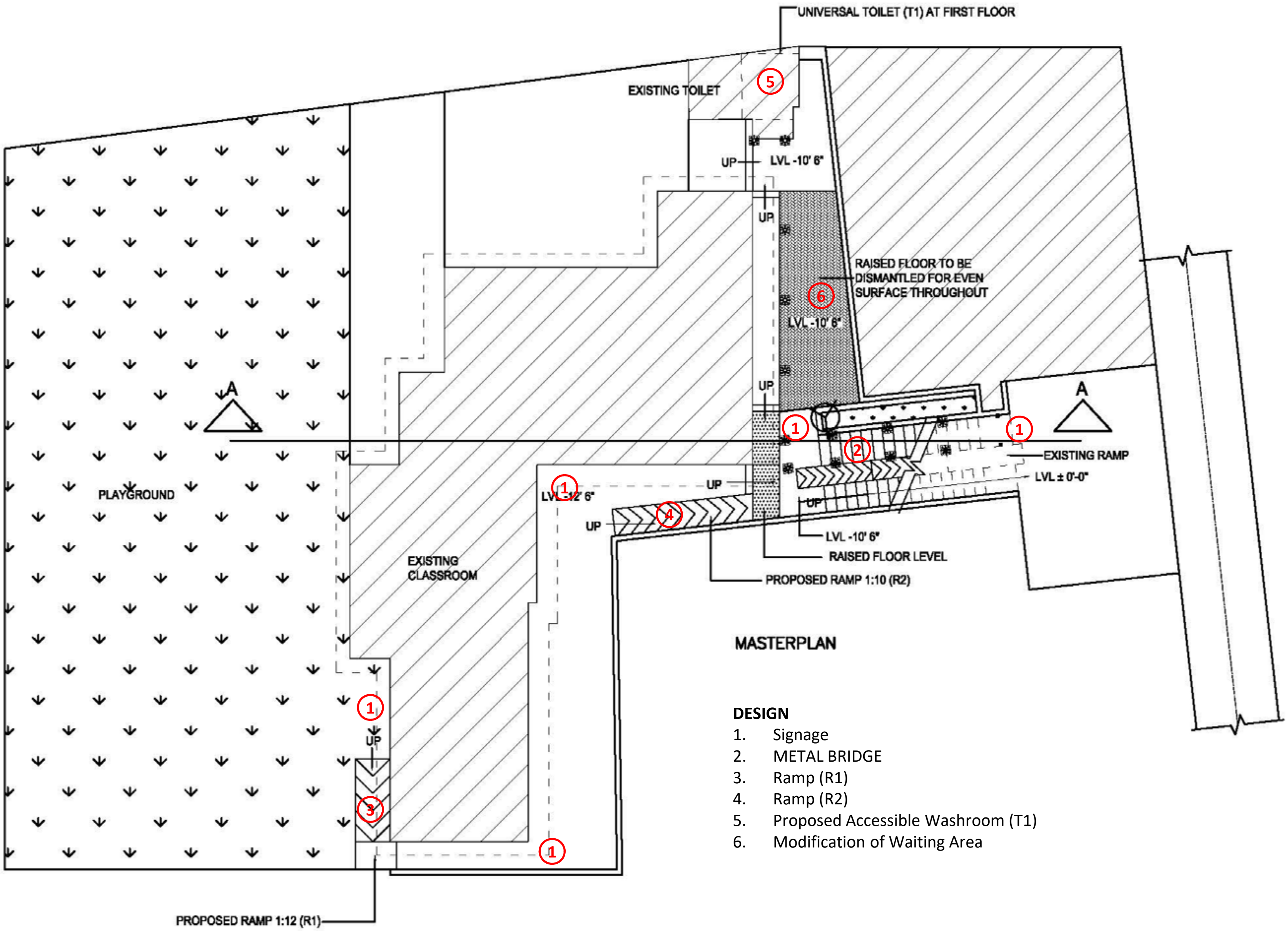
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MASTERPLAN

DESIGN

1. Signage
2. METAL BRIDGE
3. Ramp (R1)
4. Ramp (R2)
5. Proposed Accessible Washroom (T1)
6. Modification of Waiting Area

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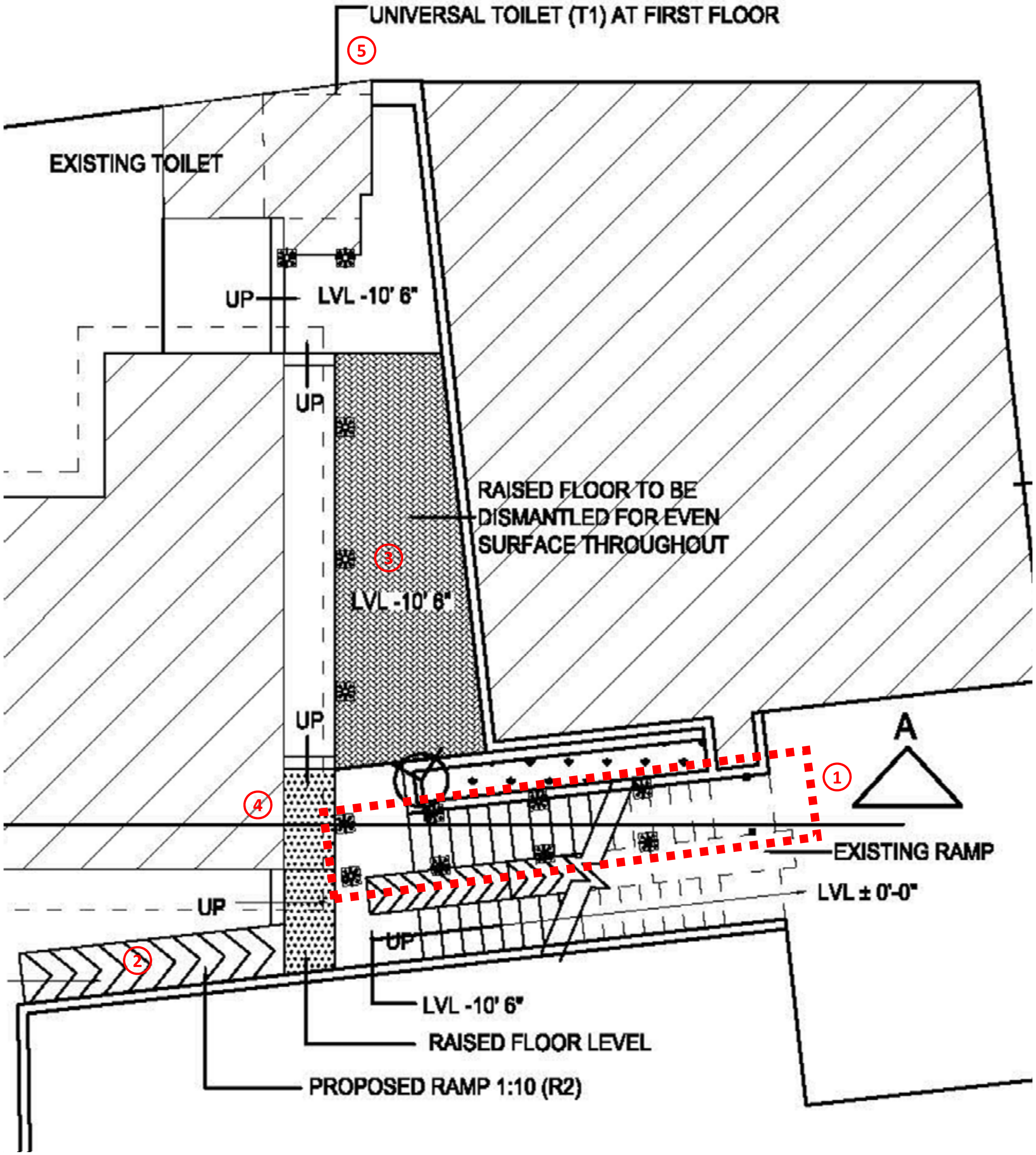
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DESIGN

1. METAL BRIDGE, constructed to create accessible first floor.
2. Ramp (R2)
3. Raised floor to be dismantled for even surface throughout
4. Surface raised to level -10'6" for even surface throughout.
5. Proposed Accessible Washroom (T1) in first floor



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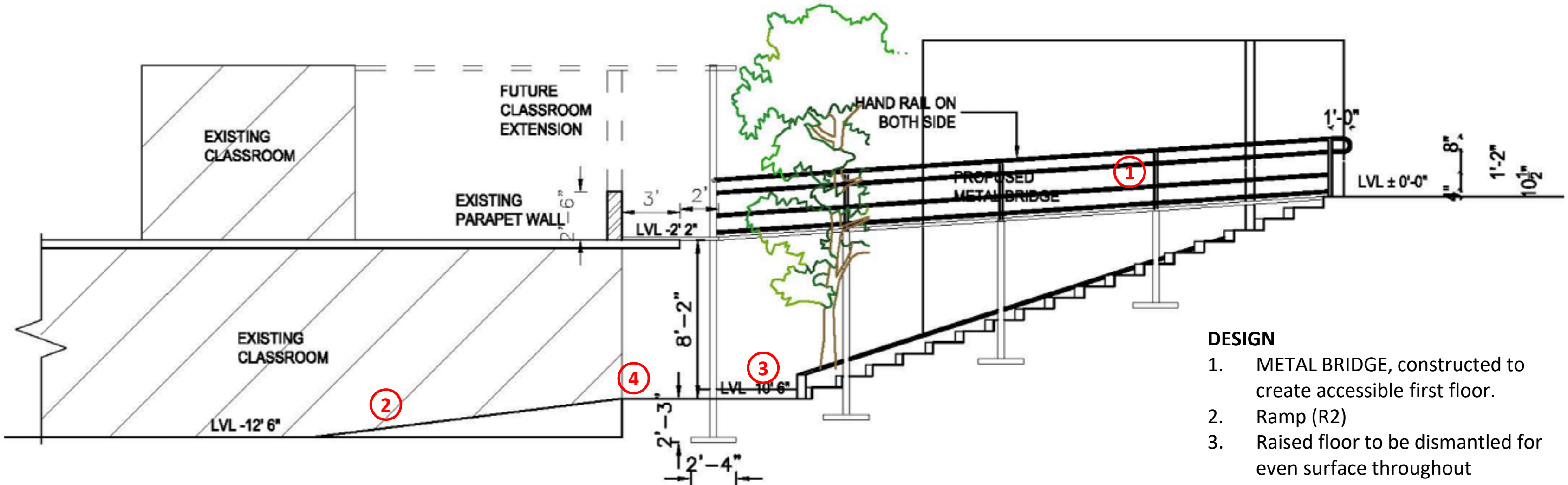
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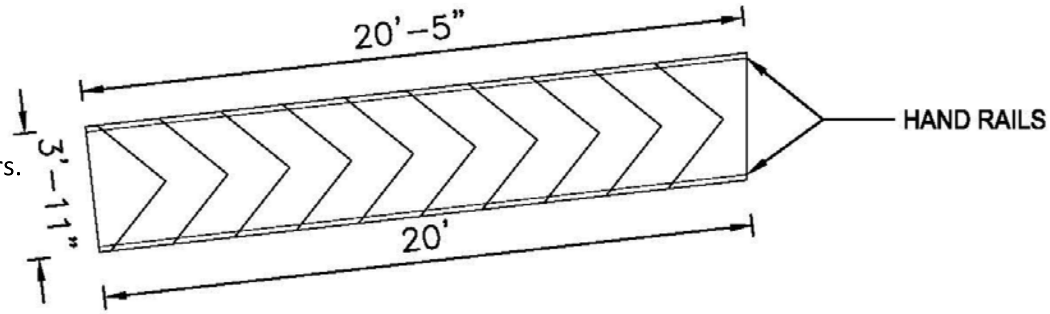
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SECTION AT A–A

DESIGN

1. METAL BRIDGE, constructed to create accessible first floor.
2. Ramp (R2)
3. Raised floor to be dismantled for even surface throughout
4. Surface raised to level -10'6" for even surface throughout.



Ramp

Ramp width is 36" min, excluding space of grab bars.

Slope of ramp is 1 : 10

Surface of ramp is slip-resistant.

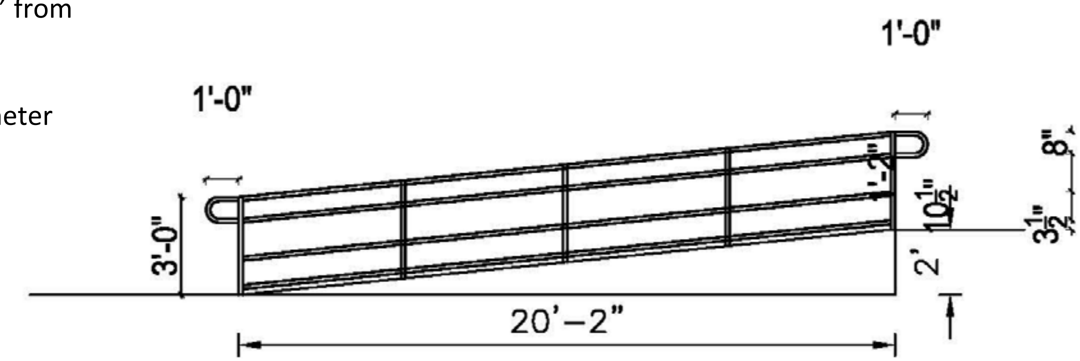
Railing

Hand railing is present in both side of the ramp.

The height of hand railing is 36" and 28" from surface of the ramp.

2" high side rail in made in both sides.

Handrail gripping surface is 1.5" in diameter



2 DETAILS: RAMP - R2 WITH 1:10 GRADIENT

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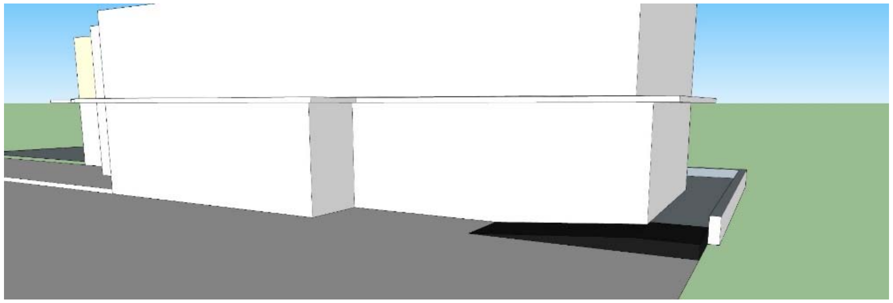
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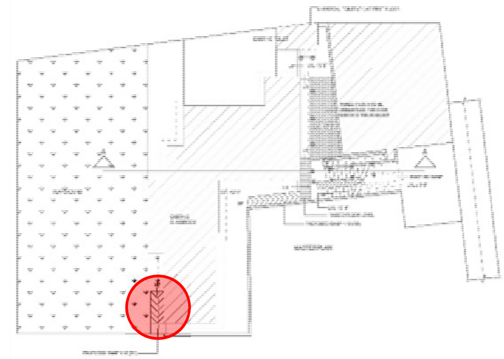
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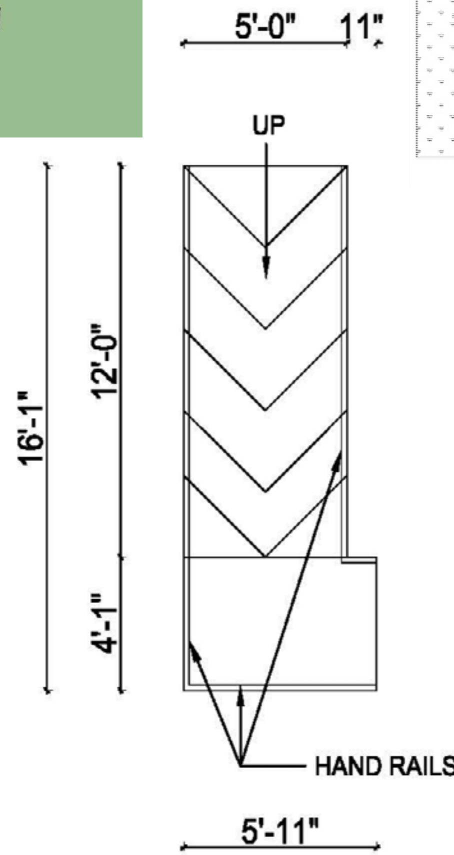
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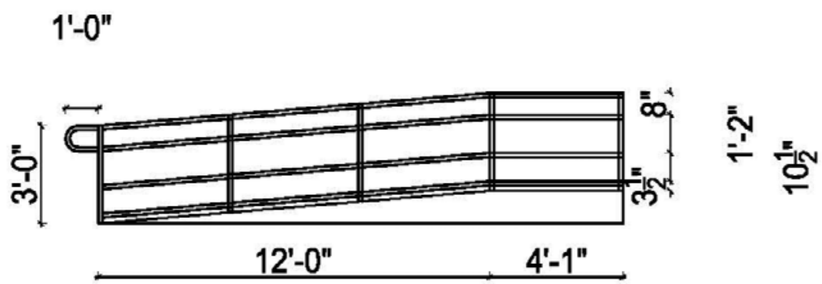
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DETAILS: RAMP – R1 WITH 1:12 GRADIENT

Ramp

Ramp width is 48” min, excluding space of grab bars for two way flow.
Slope of ramp is 1 : 12.
Surface of ramp is slip-resistant.

Railing

Hand railing is present in both side of the ramp.
The height of hand railing is 36” and 28” from surface of the ramp.
2” high side rail in made in both sides.
Handrail gripping surface is 1.5” in diameter

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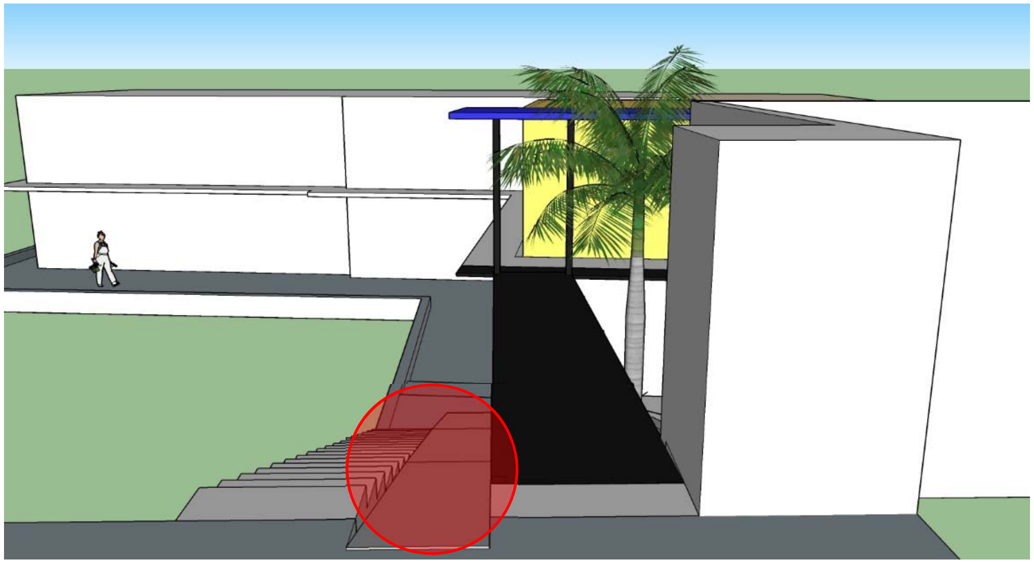
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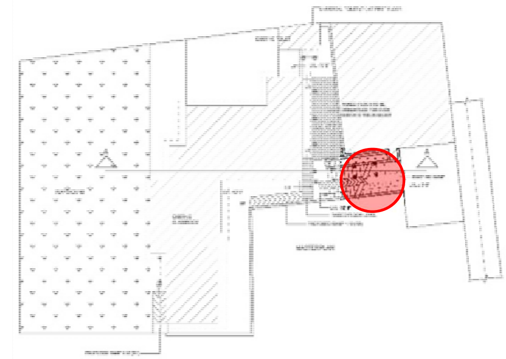
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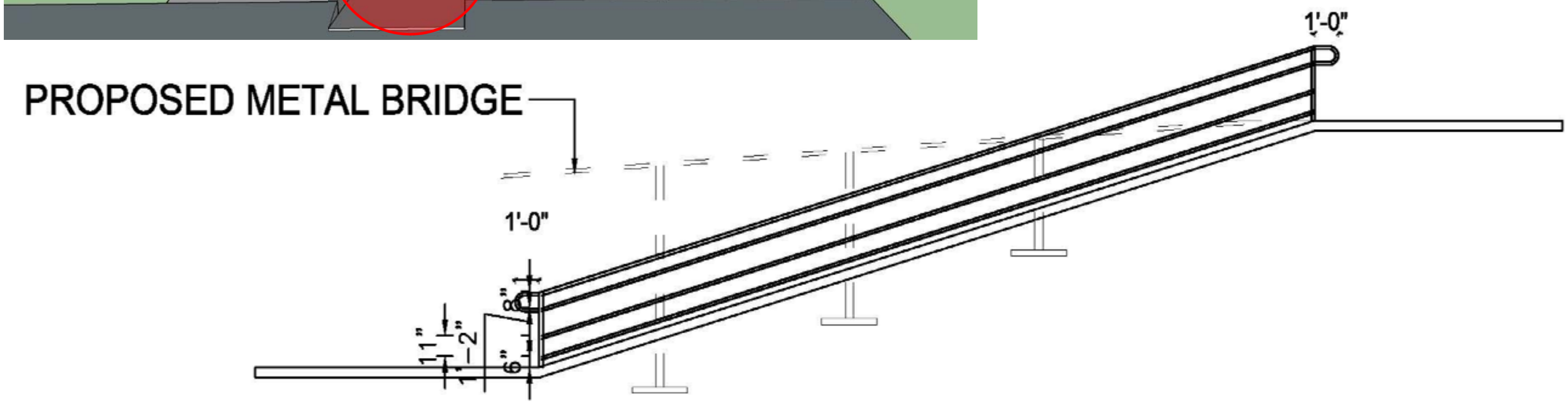
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DETAILS: EXISTING RAMP – HANDRAIL DESIGN

Railing

Hand railing is present in both side of the ramp.
The height of hand railing is 36” and 28” from surface of the ramp.
2” high side rail in made in both sides.
Handrail gripping surface is 1.5” in diameter

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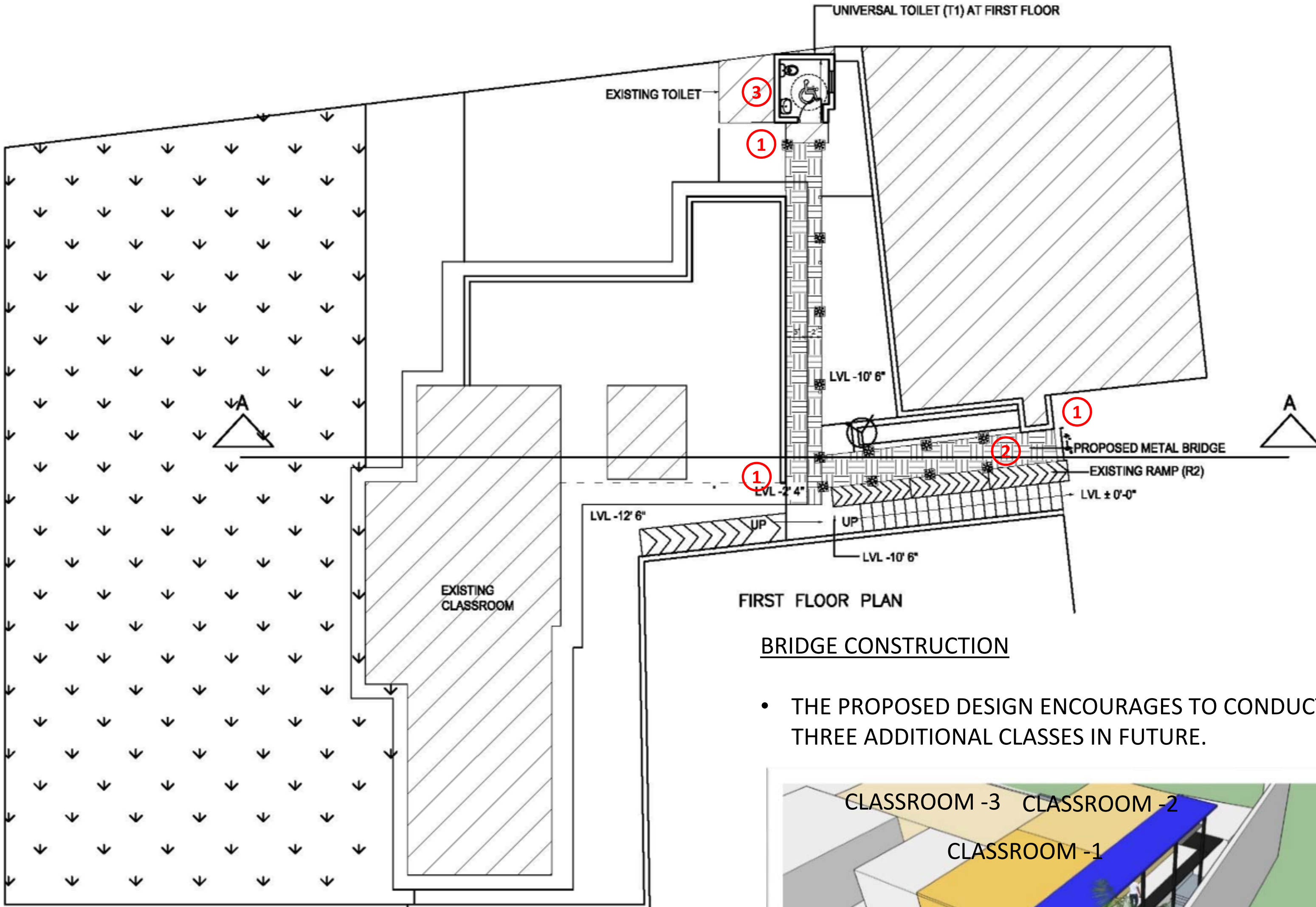
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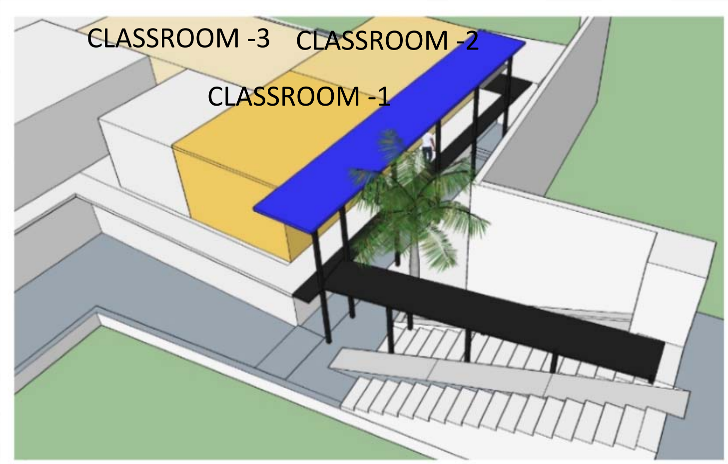
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BRIDGE CONSTRUCTION

- THE PROPOSED DESIGN ENCOURAGES TO CONDUCT THREE ADDITIONAL CLASSES IN FUTURE.



DESIGN

1. Signage
2. METAL BRIDGE
3. Proposed Accessible Washroom (T1)

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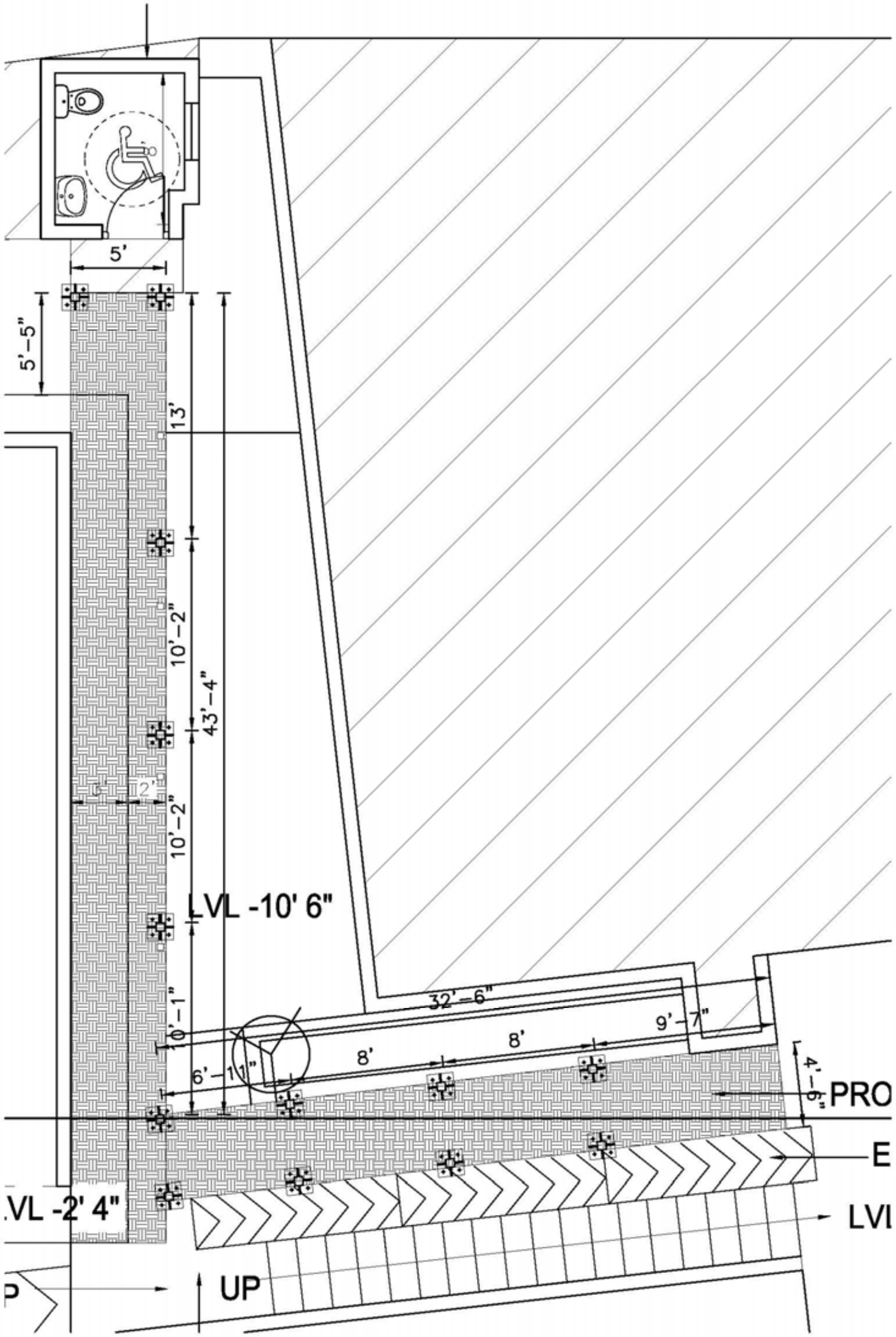
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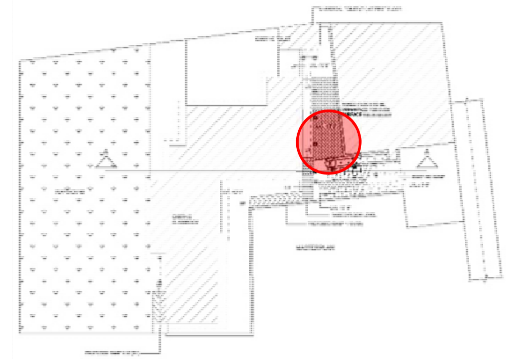
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BRIDGE CONSTRUCTION

- Metal Bridge of width 5'-0" for two way public flow is designed to rest on existing reinforced slab projection of 3'-0" width which connects proposed accessible washroom.



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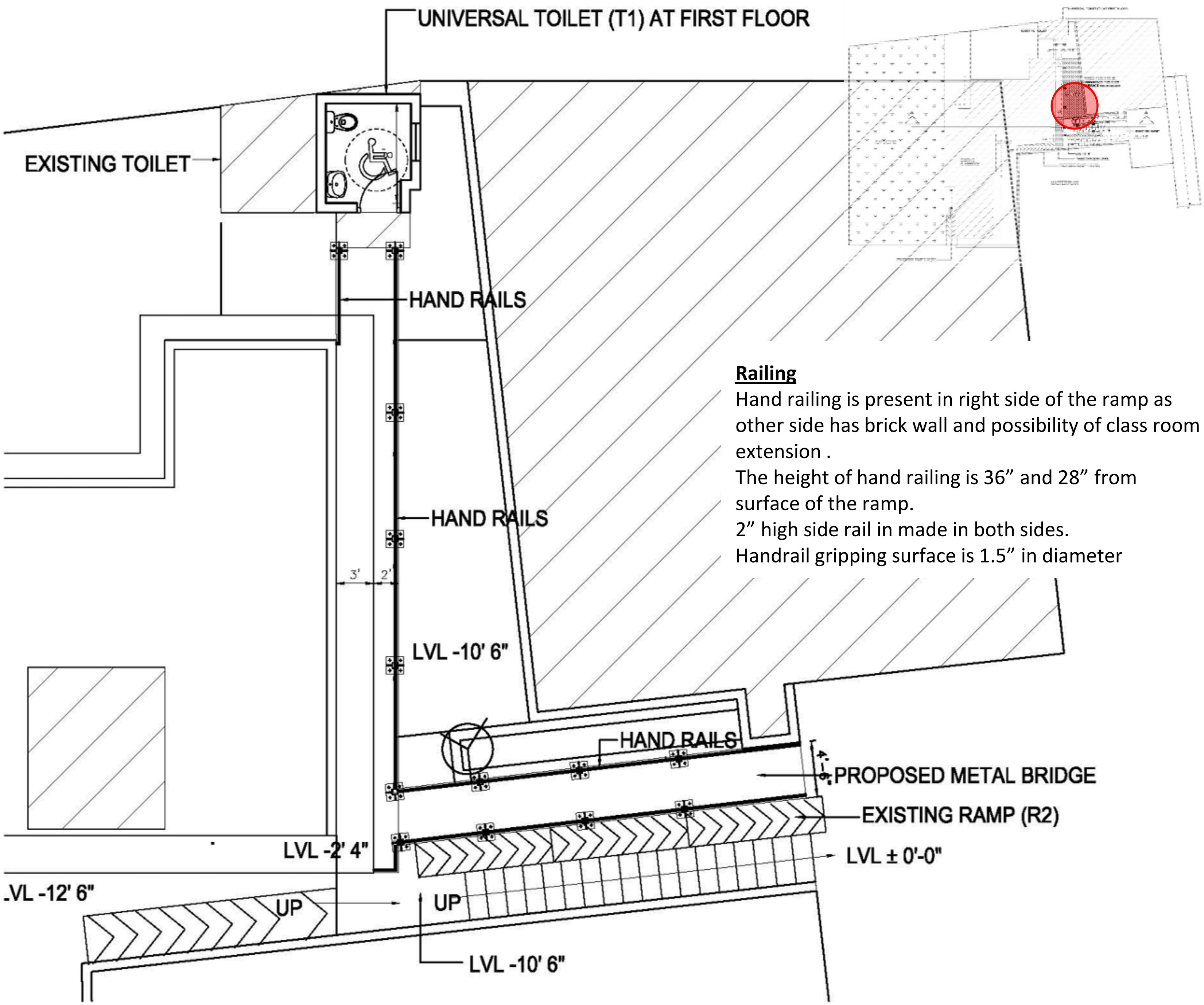
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Railing

Hand railing is present in right side of the ramp as other side has brick wall and possibility of class room extension .

The height of hand railing is 36" and 28" from surface of the ramp.

2" high side rail in made in both sides.

Handrail gripping surface is 1.5" in diameter

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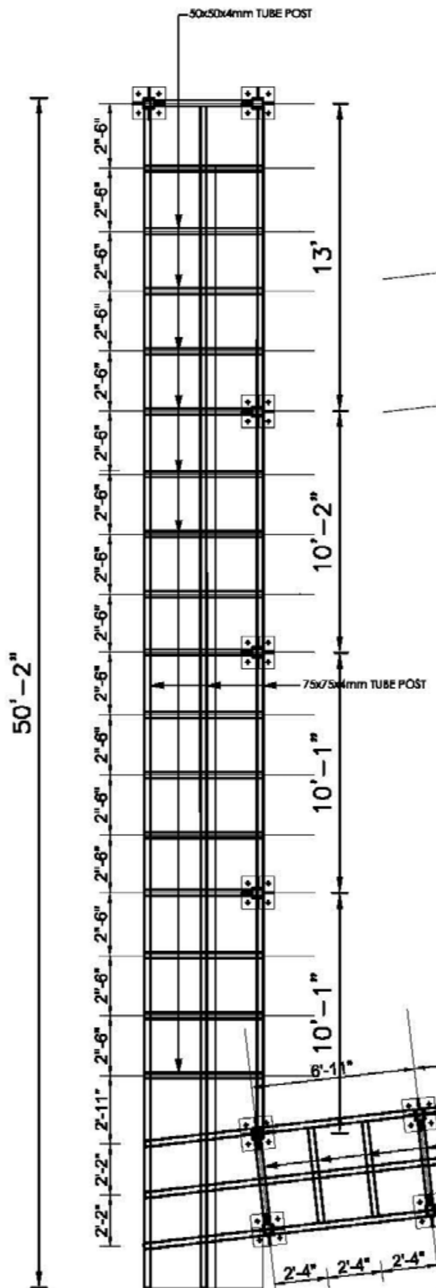
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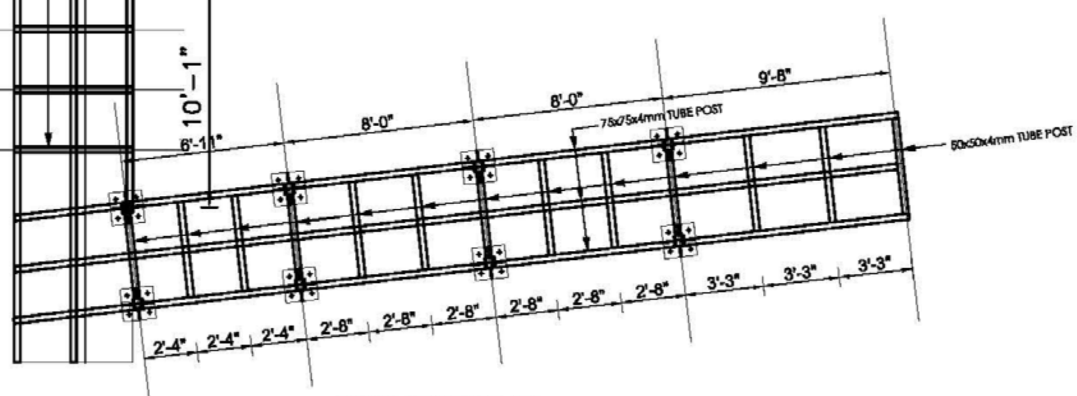
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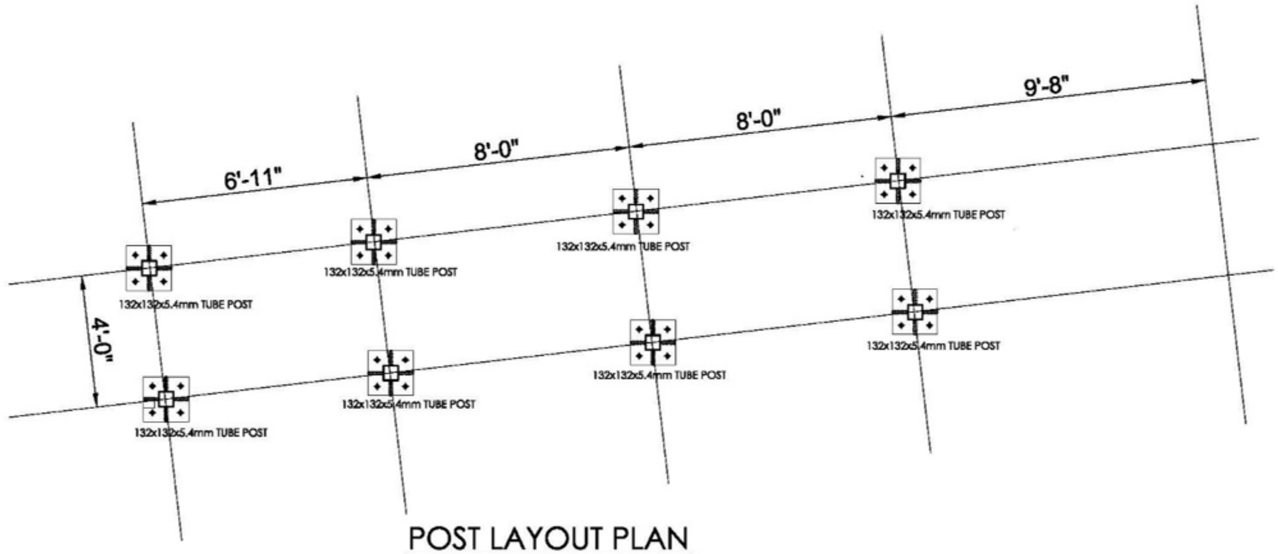
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TUBE LAYOUT PLAN



POST LAYOUT PLAN

STRUCTURE

Metal structure is proposed for structural support of Bridge.
132x132x5.4mm tube post is proposed for vertical structure member while 75x75x4mm Tube and 50x50x4mm Tube post are proposed for horizontal support. the horizontal support rests over existing RCC slab projection.

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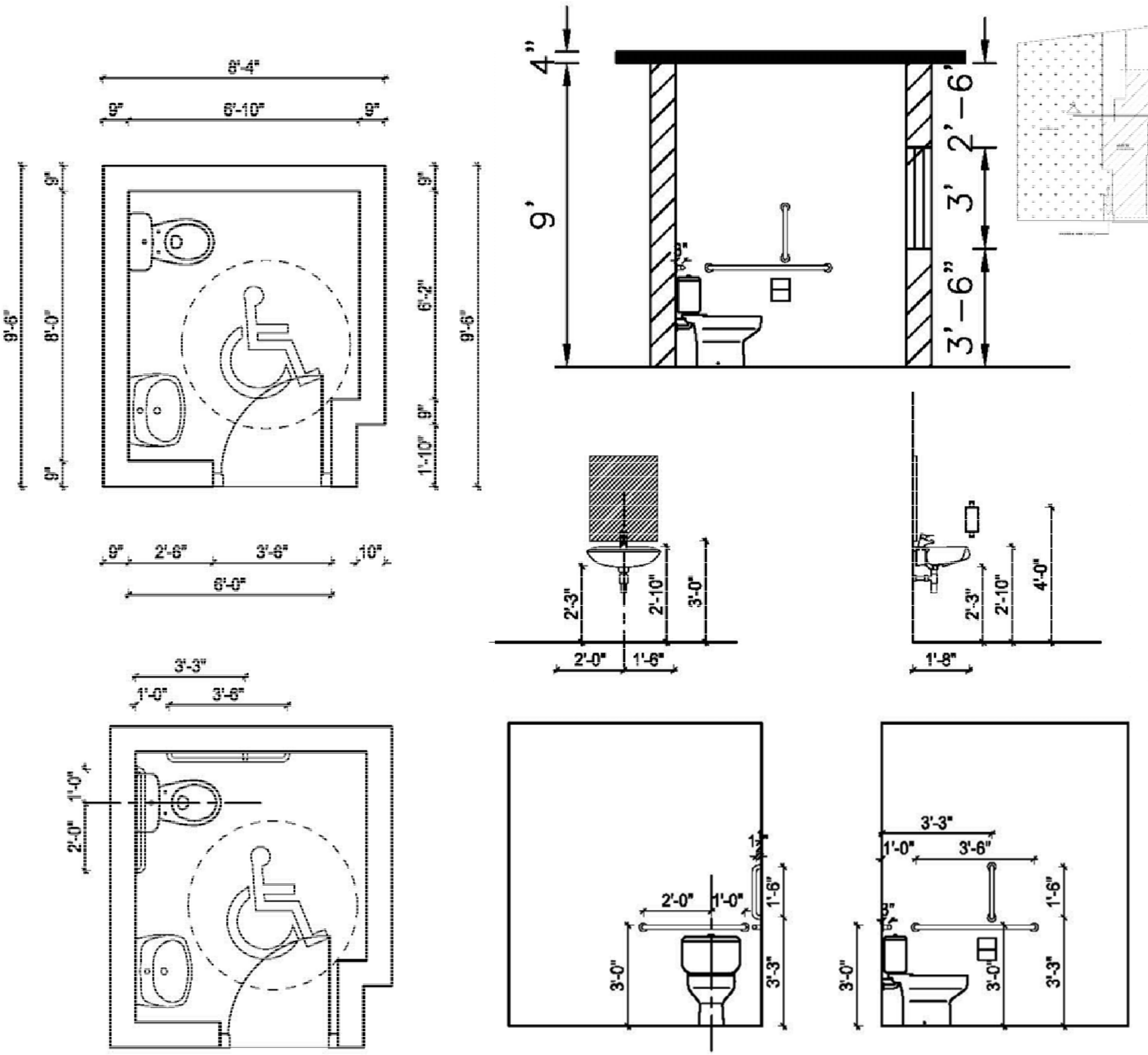
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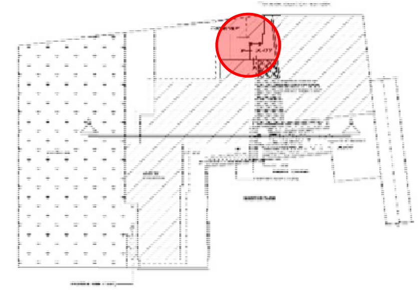
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DETAILS: TOILET (T1)



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Wash basin
Centerline of the wash basin 18 inches from the side wall
The top surface of wash basin is 34 inches high above the floor.
At least 27 inches clearance from the floor to the bottom of wash basin that extends at least 8 inches under the basin for knee clearance
18-24 inches of the clear floor space extend under the lavatory so that a person using a wheelchair can get close enough to reach the faucet.

Water Closet
Centerline of the water closet 18 inches from the side wall
Height of the water closet 18 inches above the floor measured to the top of the seat

Mirror
Bottom edge of the reflecting surface no higher than 36 inches above the floor.

Toilet Paper Dispenser
Located 7 inches from the front of the water closet to the centerline of the dispense.
Located 15- 48 inches above the floor

Hand Dryer
Operable part of the hand dryer 45 inches above the floor

Soap Dispenser
Operable parts of the soap dispenser 40 inches above the floor

Horizontal Side Grab Bar
42 inches long Grab bar on the side wall.
Located 12 inches from the rear wall.
Mounted 30 inches above the floor to the top of the gripping surface.

Vertical Side Grab Bar
18 inches long Grab bar on the side wall.
Located 39 inches from the rear wall.
Mounted such that the lower end is 39 inches above the floor.

Flip-up Grab Bar
30 inches long Grab bar on the wall
Located 15 inched from the centerline of the water closet
Top of the gripping surface 36 inches above the floor.

Mirror
Bottom edge of the reflecting surface no higher than 36 inches above the floor.

Toilet Paper Dispenser
Located 7 inches from the front of the water closet to the centerline of the dispense.
Located 15- 48 inches above the floor

Hand Dryer
Operable part of the hand dryer 45 inches above the floor

Soap Dispenser
Operable parts of the soap dispenser 40 inches above the floor

Horizontal Side Grab Bar
42 inches long Grab bar on the side wall.
Located 12 inches from the rear wall.
Mounted 30 inches above the floor to the top of the gripping surface.

Vertical Side Grab Bar
18 inches long Grab bar on the side wall.
Located 39 inches from the rear wall.
Mounted such that the lower end is 39 inches above the floor.

Rear Grab Bar
The grab bar at least 36 inches long on the rear wall.
It extends at least 12 inches from the centerline of the water closet on one side (side wall).
It extend at least 24 inches on the other (open) side.
It is mounted no less than 36 inches above the floor to the top of the gripping surface.

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B	PRESENTATION ON ACCESSIBILTY AUDIT.	17.09.2017
C	DISCUSSION ON PROJECT DEVELOPMENT - 1	30.09.2017
D	DISCUSSION ON PROJECT DEVELOPMENT - 2	29.10.2017
E	CONCEPTUAL DESIGN	20.11.2017
F	FINAL DESIGN	06.12.2017

PROJECT BY
National Federation of the Disabled- Nepal (NFDN)

PROJECT
SOORYADAYA SCHOOL, Bhaktapur

DRAWING TITLE
CONCEPTUAL DESIGN

DESIGN BY
SQUARE UNIT PVT. LTD.
SQUARE UNIT PVT. LTD.
asquareunit@gmail.com

DRAWN BY	SCALE	DATE
AR. Sanjaya Ratna Shakya		06.12.2017

DRAWING NAME	REVISION
SU/A-10/P-MP	A

Door

- Should be barrier free for wheelchair entry.
- If the threshold is vertical is it should not be more than ¼ inch high.
- When the leaves of door are opened in 90 degree or completely opened, the clear width of the door should be 32 inches.
- The door which is being made having two independent leaves and at least one leaf is used for in and out, there should be at least 32 inches clear width while it is opened in 90 degree.
- The door which needs more than 5 pound pushing force to open it shall not be considered accessible.
- While keeping latch, handle, knot or key bolt to open or close the door from inside or outside, the height from floor to that place should not be no less than 34 inches and no greater than 48 inches above the floor.
- Enough space should be available inside and outside door for pulling and pushing or rotating the wheelchair during opening or closing the door.

The following characteristics of the door handles are recommended

- Push / pull mechanism that require no grasping
- Lever handles to be preferred on latched doors
- It is safer to use D shaped handles as they reduce the risk of catching on clothing or injuring from the exposed lever end.
- Doorknob is not recommended, as it does not provide adequate grip for persons with impaired hand functions

Signage

- Universal signage has following components: (Color contrasts signs, Character, content and layout, Pictograms and accessibility symbols, Positioning, Viewing distance, lighting)
- Braille and tactile signage should be placed at a height between 3 feet to 5 feet. Ideal location at 3 feet 6 inches above the finished level.

Color Contrast

- Text should contrast with sign background
- Sign should contrast with environment
- 70% contrast between wall and sign panels
- Avoid shades of colors
- Avoid using same color as safety signs
- Maximum 5 colors
- Non reflective surface
- Schedule for color contrast with sign background is given in following table:

Background	Sign Board	Legend
Red Brick or Dark Stone	White	Black, dark green or dark blue
Light brick or light stone	Black/Dark	White or Yellow
Whitewashed walls	Black/Dark	White/Yellow
Green Vegetation	White	Black, dark green or dark blue
Back-lit sign	Black	White or Yellow

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